

Inter IIT/NIT/IIIT/BITS Placement 2021

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USE [view only link](#):

Guidelines:

- Mention your college name
- **Mention CPI Cutoff and eligible discipline, please apply red color highlights** mi
- While typing, use Ctrl + Enter to go to new page
- PLEASE KEEP COMPANIES ON SEPARATE PAGES or use horizontal lines to separate them.
- Enable outline for Company Shortcut
- Page edit history will be maintained in History Page
- Please don't remove questions, some people are frequently deleting screenshots/questions.
- If possible, mention whether the company is open for M.Tech. or not
- **Green**
 - For External Links
 - And Answers to any questions
- **Red**
 - For CPI and Discipline Cutoffs
- **Orange**
 - For Very Important details
- **Pink**
 - For Important details
- **Cyan**
 - For a Question
- While adding external solution links, please apply green color highlights
- Mention CPI Cutoff and eligible discipline, please apply red color highlights
- Please don't edit or remove heading 1 or heading 2 style, it screws up the outline and makes the document look chaotic.

Company List

You can search the questions of the companies.

KINDLY ENTER COMPANY HERE, ONLY IF ANY INFO IS ADDED IN DOC
Those who are creating links, Insert -> bookmark in front of the company name where questions are added, then add a link to the bookmark. For eg see Microsoft link

(Anyone who solved the question completely is requested to share the solution and/or approach)

Morgan Stanley	Amazon	Mathworks	Cisco	Qualcomm	VMWare SDE Intern
TCS CodeVita Pre-Qualifier	Appdynamics	Paypal	JPMC	Curefit	Arcesium
ICICI Lombard	Uber	DeShaw	Nutanix	CISCO	Wells Fargo
Epsilon	Komprise	Capgemini	Codenation	Flipkart	Confluent
Ally.io	Gameskraft	PhonePe	Lynk Logistics	Urjanet	Udaan.com
Icertis	Standard Chartered	Eightfold AI	iRage Capital	Edgeverve	Citrix
Oracle					

When Editing link select company name in the table and press ctrl+K then select the bookmark and not heading

History of Companies

Date	Company + College
1/8/2020	Morgan Stanley, Amazon, Mathworks
August	Amazon, Curefit, JPMC, Cisco, Paypal, Appdynamics - BITS Pilani
15 Sept 2020	Codenation in IITD
27 sept	Flipkart IITD
Oct 6	Cure.fit IITG No Questions in the doc, if someone deleted then please add them again
8 Oct	Wells Fargo (IITD), Confluent (IITG)
9 Oct	Icertis(IITK), Udaan (IITD)
10 Oct	Standard Chartered (IITK), Icertis(IITD), Eightfold AI (IITK), Ally.io(IITM)
11 Oct	Icertis(IITR), PhonePe SDE(IITG), IRage (IITG), Envestnet Yodlee (IITG), Wells Fargo(IITR)
13 Oct 14 Oct	Oracle(IITG) No Questions in the doc, if someone deleted then please add them again Wells Fargo(IITG),
15 Oct	Oracle (IIT BHU)
	KINDLY ENTER COMPANY HERE, ONLY IF THE QUES ARE ADDED IN DOC Please mention college name too

Someone messed with the cell content alignments in the tables. If you accidently did that, please do a Ctrl+Z instead of leaving it all messed up

Queries Section

BNY mellon visited anywhere?please add questions
Someone add Societe Generale questions please!

For God’s sake please don’t delete the questions+1+++1Archive the doc using
<https://archive.org>

Did Quantiphi Visit any Campus? Please Update the Question.
Please update Worldquant questions from IITD/IITKDid not visit IITK

IIT ROORKEE GUYS , PLEASE UPDATE THE DOC +1/0
Kindly share Citrix questions from IITR

- Did MTX Group visited any IIT/NIT/BITS? Please add questions Showing up in the portal at IITG. Someone please add questions and tips
- Did Bidgely visit any campus?? Please add questions for both profiles ASAP
- Did Dgraph Labs visit any college? Please update ASAP!!!! +1Yes, IITG IITG guys can you please update the questions!! pleaseTest not conducted yet (test on 14-oct was postponed)
- Time for each section in Oracle??? How many sections? +1 +1

Did Wells Fargo visit any college for “Program Associate B” role? If yes kindly share the eligibilityIITG- B Tech: All; Mtech:CS and Data science; MSc: MnC, Phy, Chem; No CG requirements Apply carefully if you have a cap/limit on application count. They are shortlisting based on cpi even before the test.

What is the Update of JPMC Analyst in your campus? Any update about PPT or Test ?

Someone please add Sprinklr questions for Product Analyst.+1+1
(Data Scientist as well)+1

Did sprinklr visit any IIT/ BITS/ NIT?
Someone please add iragecapital quant questions(IITG/IITBHU)+1

BNY mellon visited anywhere yet? IIT BHU?Not Yet at IIT BHU Please Add Quesns+1

Can Anyone add Siemens Healthineers Questions?

Alphonso Visited anywhere for Technologist??Yes, IITG (but test not conducted yet) Please add the questions +1+1 Visited means taking online test/interviews. Being on tpc portal is not visited.

PLEASE share Alphonso Data Science Test Pattern ? If conducted in any IIT previous year?
Please add questions of Housing.Com?

Please add questions of Rupeek Fintech Pvt. Ltd ?

Please add questions of AB InBeV+1

Are Japanese Companies visiting any campus this year? IITD-LineCorp IITG-Accenture__IITB - Accenture, LineCorp

ANY GROUP FOR NON-CIRCUIT BRANCHES LIKE CIVIL, MECHANICAL??

DID GOOGLE VISIT IN ANY CAMPUS? IITB when is the test
Accenture Japan?
Standard chartered?Added

Did PhonePe visit anywhere? If yes Please add questions +1+1

Visited iitg, test not done yet (update: test conducted on 11/oct and questions added)

Please add questions for this year placements for Wells Fargo +1+1+1+1

Did Amazon , Microsoft Visited any NIT for 2 months summer internship ??

Can anyone please share questions asked in IISC Bangalore this year?+1

Someone Please +1+1

Accenture Japan visited at any campus? Please add questions+1

please add one-plus questions+1

Please Add Goldman Sachs questions+1+1

Did WALMART LABS visit any campus? Please add questions here.
PLEASE ADD WALMART QUESTIONS ASAP. REALLY NEED THEM!!!! +1 +1 hr+1+1+1
What was the format of Walmart Test??
visited IIIT Allahabad

YES NIT SURATHKAL Can someone from NIT SURATHKAL please update questions of walmart??+1+1
Visa visited any campus? 1

Did Microsoft visit any campus? please add the questions
-Did Microsoft Visit IITM please add the questions (Not Yet visited)

Dynamic Technology labs have visited any campus??Visited IIT K & IITB but test not conducted yet

Yes it came to IITR Test not conducted (IITD people??????) Yes, IITM (4-5th Oct)

Citrix visted any campus?

Did sandvine visit any campus? please add the questions

Anyone who got interviewed with app dynamics?(yes visited my friends college IIITA)
My friends did
Some of the questions asked were

- a tetrahedron with 3 corners a,b,c,d is given. find the number of ways to reach d from d in exactly n steps

- Q based on <https://www.geeksforgeeks.org/bipartite-graph/>
- make a data structure which has 2 functions insert(int key, string value) and cleanup().
-- insert : if key is already present, concatenate value to the already present value corresponding to the key.
-- cleanup : all the keys which haven't been updated or inserted in the past 5 minutes have to be removed.
Expected time complexity for both operations: O(1)
First round for me was coding questions, string based and dp.
Second round was a question about handling streams of incoming data, and a design based question where i had to implement functions for a custom cache
You have n pirates and some treasure. Pirates propose a way to divide this treasure and vote on it. If it is rejected pirates vote by majority to kill some one and redo this process. How many pirates will be left in the end?
You have k knights on a board. Two knights can swap their positions if they can capture each other. What is the total number of final configurations of the board?
3) You have a sorted doubly linked list. Convert it into a balanced BST in O(n) time and constant space.

Anyone from IIIT'S or BITS please upload questions of Qualcomm or different companies who have visited?

please add sprinklr questions+1

Please add Flipkart's questions for freshers' (I+F)
[871. Minimum Number of Refueling Stops](#)

Please add Clumio's questions for freshers' (I+F) (visited IIITA)
CODENATION questions? +1

Please Share CloudEra Questions NIT-W !

Please add Intuit’s questions

Please share Amazon F2F Interview Questions!

please share uhg questions nit-jalandhar

Did SAP Labs visited any campus..Please update questions

Did Oracle visit any campus for FT, Please add Questions/Pattern.

yes IIIT A - mcqs yes IITG

Any Resources ????? What to focus on, for oracle? - In IITG, they conducted the test on proaptitude.com, which tbh was the worst platform ever. Even with intel core-i5 and 8gigs of RAM, the page was taking 1 minute to scroll down to the bottom to mark the answer of even one question(and there were 50+ mcqs). So I would say, focus on getting atleast Intel Core-i9 Extreme Edition if they conduct test again on the same platform :)

What was the test pattern for ORACLE?? ONLY MCQs??? -Yes only mcqs on oops,dbms, os, binary search trees, C structures etc

Does Wells Fargo opened for Dual Degree(B.Tech + M.Tech) anywhere? yes iitm 8+ CG in IITR

Please add Wells Fargo questions if exam has been conducted in your campus.(Some one deleted their already added question from this doc ☹)

ASK IITD PEEPS

As WebCam is on during tests, can we use paper pen to solve problems or system gives warnings for them? You can use pen/paper

Is Alphonso visiting any college for BDA profile other than IIT BHU? yes iitr IITG too (visited yet?) only ppt. YES IITM too.

IITG guys, what is the status? When is the test scheduled?No Info yetTest on 18th(KGP), Test on 18th Oct (IITD), Test on 18th Oct(IITBHU), Test on 18th Oct(IITB), Test on 18th(IITG at 5PM) - I guess everyone will be having test at the same time.

Are last year questions available?

IIT-R guys please add the questions its visiting not visited When will it visit IIT R? 18 Oct

App dynamics - which platform?? for questions above ??

→**PLEASE MENTION CPI CUTOFF AND BRANCHES ALLOWED FOR EVERY COMPANY.**←
Also mention proctoring/invigilation rules!!!

Did Housing.com visit any campus?????, if so please post test pattern and questions HAS JPMC(QUANT) VISITED ANY COLLEGE FOR PLACEMENTS? PLEASE ADD ITS QUESTIONS +1 JPM QUANT questions anyone please

Did OPPO visit any college. If yes, please add questions hereASAP !!+1+1+1s

Is Aspiring mind(amcat) platform accept latest submission for coding questions? Actually by mistake I click on submit answer instead on test button at first then again backtrack to that coding question change and test it and then submit it again. Did it accept my latest submission? Please help.You can submit multiple times but don’t click submit module.There are two submit buttons. Thanks for clearing doubt

SHORTLISTED CG FOR TEST IN ALLY.IO? 6.5 +

PLEASE DONT PLAY WITH THE DOC!!+++1

Has Amazon, Google, Microsoft visited any campus? Please update the doc if test done? If not visited, are there any tentative dates?

Does hackerrank test with extra testcases or just the ones given during test time?

Queries/Discussion **not related** to companies/questions.

Q. Our Placement cell makes us join a video conference during the test to make sure no one is cheating.

Is this the case in your college too? If yes, then how do you cheat(If you do)?

A. - cheating should not be done, it is not fair. - You use this doc and then you say cheating is not fair. Hmm, I smell a hypocrite.

MICROSOFT (Last Year Sample)

Important Pointsccc

- Discipline: MTech, B Tech
- Platform: Mettl
- Duration: 90 min
- Question type: 3 coding problems
- Questions: All IITs: same 3 questions, Non-IITs: different que in each college

Coding Tips

- STL allowed
- Queue approach passed all the test cases

IITD

SDE Profile

1. **War Ships**
Queue Based Question. Just queue and dequeue the elements and compute a function when the given condition reaches.

2. **Minimum Swapper**
Distorted Palindrome, minimum adjacent swap required to make a string palindrome.
(solution <https://ide.geeksforgeeks.org/oDoMdULm54>)

3. **Pizza Delivery**
Find the minimum distance between a given 2D point and a set of 2D pos (had to round it off

Brute was passing? or nlogn was expected? Brute Force (N*N) was passing. The main task was the round-off

Accepted solutions by (IIT BHU)

DS Profile: Conducted on mettl platform.

1. 62 MCQs in 60 minutes. No negative marking. Questions based on concepts in classical ML, recommender systems, NLP, etc. Were there Qns on Probabilistic graphical models?
2. Question on Probability distribution, Recommendation Engine, Trees, ensemble, bias-variance, neural network, Linear Algebra, Optimization, Kernel-Based, NLP basics, etc

IITKGP (Intern, 2020)

SDE Profile

4. Evaluate postfix expression using stack
5. Convert infix to postfix
6. Find mean median and mode of an array
- Note: Using N*log(N) approach in this question was giving TLE. Try to do it O(N) to pass all the test cases

ML Profile

1. 62 MCQs based on Machine Learning, Neural Networks, NLP, Probability in 60 Minutes
2. To prepare for the above question read the 10 chapters of [Hands on Machine Learning](#)
-

Morgan Stanley(July 2020)

NOTE: Not mentioning college name because don't want placement officer's chamchas to report that our college's placement details are being leaked. Will mention college name later after things cool down.

Important Points:

- Open for all(Not even CGPA criteria)
- AQPlatform: AMCAT
- Sections: 3(20 minutes + 20 minutes + 60 minutes)
- Aptitude: 10 questions in 20 minutes.
- Debugging: 7 questions in 20 minutes.
- Coding: 3 questions in 60 minutes.
- Profile: Technology Analyst

Request: Students of IITs and BITS should update this document as well because placements have started in those colleges. Thank You.minimum-lines-cover-points/

Coding Questions:

1. Minimum lines to cover all points
2. Largest subarray with equal number of 0s and 1s
3. DP based question which used the result of Longest Common Subsequence problem.

Note: All the above questions were in the form of well-formed really long word problems. You had to reduce the problem statement to the problems mentioned above.

-NIT TRICHY (AUG 2020)

Same pattern as above
Platform Amcat
Aptitude and debugging was quite easy can be done before time

CODING QUESTIONS

1. Maximize j-i Such that a[i]>=a[j] (EASY)
 2. Normal Sort function with comparator based question (EASY)
 3. Similar to Count length of region in No. of island question (MEDIUM)
-

Amazon (July 2020) Does amazon hire students from non circuital branches too. Or does it even open for them?

Cam is on?

Important Points:

- Open for CS/IT,ECE,EE(7.0 And above)
- Sections: 5(20 minutes + 70 minutes + 20 minutes +20 minutes +20 minutes)
- Logical 10 questions in 20 minutes.
- Debugging: 7 questions in 20 minutes.
- Coding: 2 questions in 60 minutes.
- Personality: 20 minutes and 20 minutes survey
- Profile: SDE

Coding Questions:

2 questions from this list: [Amazon Online Assessment Questions list](#)

<https://www.geeksforgeeks.org/merge-two-sorted-linked-lists/>

<https://www.geeksforgeeks.org/a-linked-list-with-next-and-arbit-pointer/>

Favorite Genre (<https://leetcode.com/discuss/interview-question/373006>)

Merge two sorted lists

Search for a Tree in another tree

<https://leetcode.com/problems/critical-connections-in-a-network/> bhai kitna bhi try krle tu delete krne kaa ss leliya hun mein aur sun

nhi horha tera placement kitna bhi try krle

(leetcode DFS) (Being asked a lot)

count distinct pairs with a target sum

BITS Pilani

// Different sets had different questions

- > 2 coding questionsVCcv were asked. There were some debugging questions , MCQ and some mental ability questions also.
- > Overall it was a 2.5 hrs test.
- > Test was conducted on amazon platform.

Q1) <https://www.geeksforgeeks.org/merge-two-sorted-linked-lists/>

Q2) <https://www.geeksforgeeks.org/clone-linked-list-next-arbit-pointer-set-2/>

Q3) <https://www.geeksforgeeks.org/search-in-row-wise-and-column-wise-sorted-matrix/>
(Brute force was passing all the test cases)

Q4) <https://leetcode.com/problems/two-sum/>

Q5) <https://leetcode.com/problems/>

Jo

NIT TRICHY

Platform **AMCAT**

All Question were same which are mentioned above

All Debugging questions from this list Only (This link Contains Some Chinese Language Also Translate it to English)

<https://www.evernote.com/client/snv?noteGuid=d0047552-4cff-4c29-b305-b8aa2d33f364¬eKey=636f07d57c2eb3ea&var=b&sn=https%3A%2F%2Fwww.evernote.com%2Fshard%2Fs683%2Fsh%2Fd0047552-4cff-4c29-b305-b8aa2d33f364%2F636f07d57c2eb3ea&exp=ENB3907&title=Amazon%2BOA1%2BDebugging>

NIT

Platform **AMCAT**) <https://www.geeksforgeeks.org/merge-two-sorted-linked-lists/>

Q2) <https://www.geeksforgeeks.org/clone-linked-list-next-arbit-pointer-set-2/>

Q3) <https://www.geeksforgeeks.org/search-in-row-wise-and-column-wise-sorted-matrix/>
(Brute force was passing all the test cases)

Q4) <https://leetcode.com/problems/two-sum/>

Q5) <https://leetcode.com/problems/>

Mathworks (August 2020)

Important Points:

- Open for all(No CGPA criteria)
 - Platform: Hackerrank
 - Time: 90 minutes
 - Choose 2 out of 3 Languages for MCQs: Language Choice(C/C++/Java)8
 - Total Questions: 45
1. 2 Coding questions(Everyone had different b sets)
 2. 21 questions, 7 from each language. Had to solve 14, based on the choice of languages.
 3. 6 Python(Bonus Questions)
 4. Rest: Maths + Computer Science questions.

NOTE: Students even had different sets for MCQs.

Coding Questions: All questions were repeated from previous year Inter-IIT doc, gfg interview experience. I know of only four questions which were available neither on the Inter-IIT doc nor on gfg. Will try to update one question among those.

CTC? IIT or NIT or IIIT? 13-15 base i think, internship amount:-45k

https://docs.google.com/document/d/1I_N0dUs-SFqJ0E3v2bEZmIqmgCJr3fGD911Nd1En10s/edit?fbclid=IwAR3AjeDLIMLtFbO38rq8ZAboQrRX0RK2C45dzhEIcopAuD-1G7TU773xIJgCisco C/JAVA/Python

Note : CPP not allowed (Only allowed)

Total Rounds: 4 CPP without STL Allowed OR CPP Not Allowed?

Round 1: Written (2 Coding + 13 MCQ)

<https://www.geeksforgeeks.org/cisco-interview-experience-2020-on-campus/S>

[Drive link](#) credits to harpinder singh

Round 2: Technical Interview(Different Questions to all)

Some of them were: 1) <https://www.geeksforgeeks.org/print-a-given-matrix-in-spiral-form/>

Round 3: Managerial Round

Round 4: HR Round

Why C++ not allowed in cisco?

IIT Kharagpur(CISCO, Intern Hiring):

NOTE: CPP NOT ALLOWED (Learn Python or Java Which were allowed else code in C)

DO they allow CPP during Interviews??

Round 1:

ScreenShots of Questions (Coding questions +MCQs):

[Link](#)

Note: 2 Coding Questions + 15 MCQs

Coding Questions Solution Link:

Question 1:[Q1](#)

Question 2:[Q2](#)

VMWare SDE

Intern-VIT (May 2020)

<https://drive.google.com/drive/folders/1ENjQkR2EvzoeVvRlu9PvdFQQGixILC7G?usp=sharing>

Q2: <https://leetcode.com/problems/find-pivot-index/>

Eligibility : Mtech CS and related specialisations. Marks Criteria : 70% throughout

Appdynamics

cpi cutoff??

BITS Pilani, Computer Science

[link to questions](#) Please provide the solution link also

IIT Roorkee test duration?

CSE ECE EE Maths, 7+ CGPA cutoff

[Link to questions](#)

Constraints for Question 15 - if someone remembers

Paypal platform??

cpi cutoff??

BITS Pilani, CSE

[link to questions](#)

JPMC platform??

cpi cutoff?? 7.5

Profile??

BITS Pilani, CSE

[link to questions](#) Someone please add the MCQs if remember any

IIT Kharagpur (intern hiring test):

1. Section 1: Questions on probability, combinatorics(finding number of ways), finding expected value etc, MCQ questions on output of given code snippets, Questions on AGP, Poisson's distribution:
Some questions that I remember
a. Given X is from Poisson's distribution with mean =2, find $P(X>1.5)$
b. Number of digits in 125^{100}
c. find the sum of series $1/7+2/(7^2)+3/(7^3)+...$
d. Number of ways to make an eight bit binary number (first bit always be one) such that there are no consecutive 0s
e. Given a bag containing marbles of 4 colours, 4 marbles are drawn from it with replacement. Find the expected value of the count of marbles with different colors.should
f. What is the probability that 7 points chosen at random on the circumference of a circle lies on a semi-circle.
g. Two persons can visit a railway station any time between 1:00 pm to 2:00 pm. After arriving they wait for either 20 minutes or upto 2:00pm whichever is earlier. Find the probability that they are able to meet.
2. 2 coding questions in 40 minutes:
a. don't remember but this question was very easy (could be done by writing 3 lines of code in python)
b. Given an array of integers, arr and a value k. We can perform an operation on the array in which we can delete three consecutive elements, say arr[i], arr[i+1], arr[i+2] of the array. We can do this operation only if arr[i+2]-arr[i+1]=arr[i+1]-arr[i]=k. Find the minimum possible length of the array by doing this operation as many times as you wish. For example arr = [6, 8, 10, 12, 8, 10]. We can firstly delete the subarray [8, 10, 12] to obtain arr = [6, 8, 10] then we can delete the whole array [6, 8, 10] to obtain an array of length 0. So the answer will be 0.
Solution Link: [minimum size of array by removing 3 consecutive elements with difference = k](#)

Curefit

IITG: EP, CST, BT not allowed to give test. For civil 7.5+. For all others 7.0+.

Platform?? hackerearth

Profile? Engineering role

IITR

(2 Ques) (9.2+ cg for chemical, [CSE, ECE, EE, Meta]>7.0, almost no other branches)

Q1-> N oranges. Minimum moves to reach 0 oranges. 1 move can be one of the three i.e. -> eat one orange(n-1), if $n\%2 == 0$ then eat $n//2$ oranges, if $n\%3 == 0$ then eat $2*(n//3)$ oranges. <https://leetcode.com/problems/minimum-number-of-days-to-eat-n-oranges>

Sol -> BFS with saving seen states, **AC**.

Q2-> N distinct elements, calculate number of subsequences where $A[i+1]\%A[i] == 0$. **Elements can be reordered**.

Sol -> Sort array in decreasing order. Then, use the LIS approach to count. 2 test cases TLE, => 88/100.

[use A DP Array $dp[i]=(int)Math.pow(2,dp[i])$ -> Got AC // After sorting get the nearest divisor of i (j in this case)]

IIT Guwahati Test(2 ques):

Soln1 : [My Approach](#) : What could be the worst case?

That the maximum time in the array is our ans.

What could be the best? 0 days. Now, say if you are given a day, and I ask you, could this be the answer?

Simple $O(n)$, just check if $\geq c$ disjoint groups can be formed of length m. If yes then, $hi=mid-1$ (and update ans) else

$lo=mid+1$. **Please correct me if there is some mistake**

Soln1: Simple binary search on answer. [5455. Minimum Number of Days to Make m Bouquets](#)

Soln2: Try to fix each digit and count how many times it comes.

[Compute sum of digits in all numbers from 1 to n](#)

(Brute Force $n\log n$ also passed in my case because time limit was 5.0 secs)

Can be solved using digit DP.

BITS Pilani, CSE

[link to questions](#)

For the first, this is what I came up with: DP solution. Correct me, if there's some mistake.

First Question is basically this-

1235. Maximum Profit in Job Scheduling

This is the second question. It's from Leetcode.

Arcesium

NIT

<https://imgur.com/a/xd6ky2n>

Qualcomm

CGPA-6.5 and above
No coding only MCQ with +1 and -0.25
3 sections of MCQ
section 1: Aptitude
section 2: Basic Programming Knowledge(input output, pointers, sorting etc)
section 3: Different for each branch(CSE,ECE and EE(I don't remember))

ICICI Lombard

<https://drive.google.com/drive/folders/1P-9T-Ami9wAyRxtLqe6w4lIT3pX3wh4GQ?usp=sharing>
Developer – Cloud/Machine Learning
Internship Stipend : 20,000 pm CTC 8 lpa(based on performance)
VIT Eligibility Btech CS and related specialisations

Uber

[Intern Hiring Questions Link](#) platform??
please provide the solution link ???!!!!!!

DeShaw

Q1 Don't Remember
Q2 Don't Remember
[Q3 Tubby and Tom \(Intern Hiring Test\)](#)
lease provide the solution link ???!!!!!!
sol- <https://pro-coder.tech/tubby-and-tom-de-shaw-oa/>

Nutanix

[Intern Hiring Test questions](#) solution plz
Q1 is from leetcode- <https://leetcode.com/problems/car-fleet/>

Goldman Sachs Platform??

Screenshot of Questions and Aptitude

Please add quant questions.
Q1: Very Easy (Don't Remember)
Q2: Don't Remember
[Intern Hiring Test Q3](#) (solution: Problem was from codechef <https://www.codechef.com/problems/TWOFL>)

JPMC which college?? and can you please write clearly the question nos.

And the second one was to count all the vertices in a graph that make the graph disconnected when removed [Closest leaf to a given node in Binary Tree](#)
One question was that there were 2 robots and we need to count the maximum number of coins (<https://leetcode.com/problems/cherry-pickup-ii/>)
By finding the path from a given start and given end
[Collect maximum points in a grid using two traversals](#)
Vertex Cover Problem | Set 2 (Dynamic Programming Solution for Tree)<https://www.geeksforgeeks.org/vertex-cover-problem-set-2-dynamic-programming-solution-tree/>
Find whether subtree present in the tree or not

Wells Fargo

platform - amcat
test duration - 2hr

IIT KGP, Intern Hiring Test

Test contained 3 sections: a. English Comprehension b. Inference from Graphs/ Plotted Data/ Pie Chart etc, c. Coding Questions.
Two Coding questions were:

1. Find the number of occurrences of a given substring in a string. (Constraint was such that an $O(n)$ solution was expected)
Solution: Use KMP string matching algorithm by building prefix function for string sub+'#'+str. [Link](#)
2. Given an array arr containing positive elements and an integer K. You have to perform K operations on the array. In one operation you can pick an element of the array (suppose arr[i]) into two parts p1,p2 such that $p1+p2=arr[i]$, Now you will delete arr[i] from the array and insert p1 and p2. You need to find the minimum possible value of the maximum element after performing the operation K times.
A similar problem from kickstart which uses the same idea.

NIT Kkr

FTE hiring SOLUTIONS Please ?
Test contained 3 sections: a. English Comprehension b. Inference from Graphs/ Plotted Data/ Pie Chart etc c. Coding Questions.
Two Coding questions were:

1. given a graph and a start node, find the shortest distance from the start node to the leaf node where leaf node is the node connected to only one other node.(BFS)
2. given an office cubicle represented as an array(2d) , given some spy in a cubicle which can see in 8 directions and you need to get out of the office without being caught moving in 4 directions.(Dijkstra) solution?? these 2 questions EXACT / SIMILAR QUESTION?? Can someone give a more detailed explanation of the question?

IITD

(Program Associate A)

- Q1. <https://i.stack.imgur.com/JkgIK.jpg> How is the pseudo code supposed to be written ?? Any particular format??
Q2. <https://imgur.com/a/YPf1NCe> (Brute force was working?)
cg cut off? Was only java allowed ?
cg- written 6.5+ but shortlisted for tests majorly the 8+ students

IITR

Program associate B

- CG cutoff- 8 (JEE ALL)
webcam proctored and parallel tabs cannot be opened and warning
1. Logical-(14 question - 14 min) (e.g who sits beside whom, if statement 1 is enough , etc. type)
 2. English comprehensive-(14 question - 14 min) (reading comprehension passage , grammar , very basic)
 3. APTI [questions on LCM , HCF, Compound interest, profit loss] (14 question - 20 min),
 4. Business analysis [bar graph, pie chart , line chart and tabular data] (8 question - 15 min) Do this fast , time is not sufficient
 5. coding(45 min, 2 question) Very easy. However people got different questions.
 - a. add the numbers in odd places of an array and return the value.
 - b. count the number of a given single digit number in a integer(basically :- if($k==n\%10$) count++; $n=n/10$;
 6. No negative marking for MCQs and skipping of questions not allowed, you have to mark some answer and then only the next question will appear.

IIT BHU

Role - Program Associate A
English Comprehension section of 15 mins and data interpretation section of 25 mins before coding.Coding - 2 questions, 1 hour, amcat(a lot of bugs)
Q1 exactly same as Flipkart IIT D first question
Q2 Maximum Sum Increasing Subsequence in **nlogn** ($1 < N < 10000$)
Exact questions were very long and confusing. many got easy questions too.

IITG

Shortlisting before the test was done for both consultant and analyst profiles of program associate B. Maybe 7.5 CPI Someone plz confirm 7 most probably. For Non-Circuit Branches CPI cutoff is 8
Role - Program Associate B
Basic Apti, Vocabulary - Very Easy, No skipping allowed, No negative marking
Only one section among apti was time-consuming.
Coding - 2 ques, 45 mins - Very Easy
Q1. Given an array, find the sum of the pair of numbers whose product is maximum.
Q2. Given a number, find the number of occurrences of the given digit in it.
my set (very easy)
Q1.Descriptive but boils down to number of consonants in character array.
Q2.<https://www.geeksforgeeks.org/find-smallest-permutation-given-number/> (consider negative number also)
Different sets of questions for everyone.

Flipkart

CSE, ECE, EE

3 coding questions

1- [Find smallest permutation of given number](#)

2-Discrete Binary Search based question (Tricky and Not intuitive looking at the description) **QUESTION PLEASE!! +12**

3-Binary Numbers <https://www.hackerearth.com/practice/data-structures/arrays/1-d/practice-problems/algorithm/the-code-generator-9d3f9afa>

IIT D, SDE I

Three coding questions on amcat platform - 90 min **Anyone has an exact question , SS etc.**

1. Given ‘n’ undirected weighted graph, find the sum of the weights of the minimal spanning tree for each graph and return the kth largest sum among them.
2. Given a tree as an undirected graph, calculate the sum of nodes of each level and return the maximum among those (apply BFS - level order traversal).
3. Similar to the merge intervals question.

NOTE : All the problem descriptions are very long but they ultimately boil down to the above problems and only the main function is provided so we have to take input. For 1st question apply kruskal’s algo (<https://ideone.com/eFUHpl>)

Epsilon

(test was proctored???) Yes

IIT BHU

1.5 hours, 4 sections, Section-wise time allotted, No section switching allowed
Platform: Mettle (Sucks)

Section 1 and 2 : Logical Reasoning
Section 3: 1 Coding question (some pool of question was there and randomly allocated) Easy
(i)[question 1](#)(One of the questions).
(ii)Creating a tree from preorder and inorder arrays and finding height(Similar to this).
(iii) [Finding max depth of nested parentheses](#) (y in the link passed all test cases, the only difference was that instead of string char array[] was given)
Section 4: 45 MCQ based basic Questions on Hadoop, AWS, JAVA, SQL,HTML, Scala, Kafka

IITM

was it open to all?? Yes and what was ctc??10LPA

profile - Data Analyst , CG >7

Platform: Mettl (Worst platform)
Had 48 MCQ question and 1 coding question both in 1 hour
section 1: coding question only in python and R [Link](#)
Given input1 which is a vector and input2. Construct a matrix by input1 of size input2. Calculate the diagonal as sum(value at (i,j)th index + ith index + jth index) and store the result in result1. Now square the elements of the matrix and calculate the mean & store the result in result2.
print the abs difference between result1 and result2. (no constraints were given) **EXACT QUESTION?? SS??similar q?** [Link](#)

section 2: MCQ on R
section 3: MCQ on Python
section 4: MCQ on SQL
section 5: MCQ on SAS

Komprise

IIT BHU

1.5 hours, 3 coding question
Platform: Hackerearth

- Similar to this [Valid Ip Addresses](#) Checker was wrong for this question. Giving WA for correct soln.
- Similar to this [Weighted Job Scheduling](#)
- Find the number of substrings of a string whose permutation can be a palindrome.
(<https://stackoverflow.com/questions/57515296/return-count-of-scatter-palindrome-of-a-string>)

CodeNation-Placement

IITD

- <https://imgur.com/VqwqTX4> solution plz
- <https://imgur.com/vXF3qrW> solution plz
- <https://imgur.com/L3NWJpB>
- <https://imgur.com/aCoAw5b>

There are 3 questions
if someone has clear images please put them!! (duration of test?)

Confluent

wcpi and branches?? 7.5 opened for all Webcam was on? He Here at IITB, NO PROCTORING :), Only thing was that you cannot copy paste
IIITA came only for 6 month internship, all branches allowed -----> can you please add questions?
IITG no cpi/branch cutoff
IITB no cpi/branch cutoff

IITD

What was the cutoff? How many questions?

Platform : HackerRank

link - [confluent_iitd](#)
q1 == BFS on 2D Grid: [Solution](#)
q2 == [Cherry Pickup](#) : DP with optimization
q3 == [Find the Smallest Divisor Given a Threshold](#) : Normal binary search on answer

IITG

3 questions, Hackerrank

- Graph question - Given an undirected graph, three vertices is a trio if all three vertices have direct edges between one another. For a trio,define value as sum of all edges from these three vertices except the edges in the trio. We need to return -1 if no trio exists or min. value for all trios that exists. Could be solved using brute force. (N<=500 M<=500)
- Sliding window, always keep k cars in the window and find the minimum distance between farthest cars. - Basically the question was to find the minimum difference of i and i+kth element after sorting the array. pretty easy and straightforward question.
- <https://leetcode.com/problems/maximum-profit-in-job-scheduling/> - had to be done in O(nlogn) (n<=10^5)
[1235. Maximum Profit in Job Scheduling](#)
<https://imgur.com/a/Q4ljp05> anyone solved first? pls post the solution!!! Solution for first - <https://pastebin.com/L3Hxp5sc>

IITB

3 questions, Hackerrank (Please upload the pics of solution since don't have chegg subscription)

- Simple text queries:
<https://www.chegg.com/homework-help/questions-and-answers/simple-text-queries-challenge-given-array-sentences-array-phrases-must-determine-sentences-q32705369>
- Paint the ceiling: (N*Log(N) was clearing all test cases ??)NO
<https://www.chegg.com/homework-help/questions-and-answers/5-paint-ceiling-want-build-house-building-company-hired-build-houses-sides-specific-set-s-q43901799>
- Palindromic Graph: Given a tree with n nodes(numbered 1 to n) and n-1 edges. Each edge has a value between 1 and 26(corresponding to A to Z). A pair of nodes is called nice, if the string formed by the path between them can be rearranged to be palindromic. Find the number of nice pairs. Eg: Each pair of nodes that have an edge between them is nice(Only one letter) Constraints: Number of nodes<=10^5, Diameter of tree is less than 1000
What was the exact question? constraints?? was n^2 accepted?

Ally.io

CG CUTOFF FOR SHORTLIST? Everyone | IITR (>6.5)

IITK

Open to all, 1 hour test
NO PROCTORING :), Only thing was that you cannot copy paste

Q1: Standard 0/1 knapsack problem (passes half test cases using recursion). Use DP to get all test cases passed
Q2: [363. Max Sum of Rectangle No Larger Than K](#) Exact same question. If you only calculate presum for each K, then solution is O(n^2*k) which will pass 9/14 cases only. --
was this question same as LARGEST SUBGRID which came in IITD? Did they ask to calculate the size of the square or sum of rectangle? ??+5 Yes both questions are same as IITD but this leetcode one is different.

IITD

2 questions
<https://imgur.com/a/qBLtQSk>
SOLUTIONS??+1

IITM

Platform- Hackerrank
Time- 1.5 hrs

2 questions - Different from the above two. Everyone got the same question.

1. Number of pairs such that product is less than equal to given number. - $O(n)$ solution needed. $O(n \log n)$ didnt pass all the test cases
2. Minimize sum of Manhattan Distance in a set of points(x,y). $O(n \log n)$ solution using weighted median

<https://www.geeksforgeeks.org/find-a-point-such-that-sum-of-the-manhattan-distances-is-minimized/>

[Questions](#)

Gameskraft

Can the existing main() be deleted in the ide??

IITD

eligibility?? **Only BTech**

cpi cutoff??+1

platform??

3 questions 90 minutes

link - <https://imgur.com/a/lwowOAK>

q1 == Used dp (constructed on all changing variables 4 dimensional) passed all test-cases **can you show full solution**

(Can 3 state dp be used? current_index, maxlement up to now and total cost upto current index)?If you don't use a dimension for m then you need to resize

dp for every query refer <https://imgur.com/a/q9lkEa>

q2 == at any point we need to know number of elements greater and smaller than one being inserted so used Fenwick tree

can you show full solutionYeah refer <https://imgur.com/a/zNBZg9X>

q3 == used map and property of xor : O(n) refer image link above for solutions to all three

IIT BHU

same as that in IITD

PhonePe – SDE

PLATFORM?? Doselect

switching of tabs allowed?? NO. Switching of tabs will not be allowed in any of the tests you would probably appear in placements.

What can be the cutoff for shortlists?? 150/400 i.e 1.5 problems.May go as high as 2.5 problems

IIT BHU

(Open for all)

4 questions 90 minutes (Hard level)

1. [Problem - 1238E](#) [The minimum spanning tree is the required permutation of the string : Prim's Algo reverse the sorting order of PQ]
imgur link: <https://imgur.com/a/133q2z4> [Solution or Approach plz?](#)
2. Kind of Tree DP. Need to find maximum product of lengths of two non-intersecting paths :
imgur link: <https://imgur.com/a/133q2z4> [Wrong image](#) (some asshole changed previous link... Mt htao bsdk)
[use this link](#): <https://imgur.com/a/LJ6mYE8>
Problem (Codeforces) - [14D Two Paths](#) [SPOJ TwoPaths : Solution](#)→ [Can you explain with the help of pseudocode?](#) I took help from [this](#). Rest is slight modification which includes answers from parent also.
<https://www.geeksforgeeks.org/maximum-product-of-two-non-intersecting-paths-in-a-tree/> Same problem but the solution given is $O(n^2)$. $O(n)$ was needed.

Approach:
We are going to use dynamic programming, let's define some functions:
longestPath(vertex, parent) = length of the longest path in the tree rooted at vertex removing edge(vertex, parent)
longestLevel(vertex, parent) = maximum reachable level in the same tree.
Note: there are $2N-2$ different states(vertex, parent), this allows us to compute all in $O(N)$.
The answer is the maximum of longestPath(a, b) * longestPath(b, a) being (a, b) two endpoints of an edge (we must try everyone).
To compute longest path we need to handle these cases:
The longest path is the vertex itself.
The longest path is in one son of the sub tree rooted at vertex.
The longest path includes vertex and goes through two distinct sons as deep as possible (there maybe be zero or one son, this is can be handled in the same code).

3. Given a Perfect N-ary tree. Find shortest path length b/w two vertices. [Solution](#) : Shortest path is, distance of one vertex from LCA+distance of other from LCA.

imgur link: <https://imgur.com/a/cnDHsN0>

4. Based on Ternary Search. [Problem - 439D](#)
I did it by storing prefix sum and checking for all distinct values in the arrays in $\log(n)$ using lower_bound and upper_bound and got AC. Ternary search is not needed. Final complexity $O(n * \log(n))$. : [Solution](#) How can you be sure that the required number is one among the vals array(vals contain all the elements of a and b array combined) and not any other number b/w min(b) and max(a). ---
> I guess that is very intuitive. You can take a few examples. Otherwise it is easy to prove the the function(Function $f(k)$ = cost needed to make array a elements $\geq k$ + cost needed to make array b elements $\leq k$) is convex, and the second derivative of f wrt k is 0 at the points within the array. But if it were a contest I couldn't prove it in this less time, rather I'll try to follow the intuition, as it is very clear from the examples.
imgur link: <https://imgur.com/a/ehVQ1FU>

- PhonePe [2019 IITR](#): [A](#) [B](#) [D](#) which college??-->[IIT Roorkee 2019??](#):Yes
[Are these questions asked this year??](#) [Test not conducted yet](#)

IITG

SDE: Open to all branches, no CPI cutoff

cutoff for shortlists?1.5 to 2 questions (according to their PPT) Does PhonePe repeat questions?? No Repeat

4 questions 90 minutes (Hard), webcam: on

- Platform: DoSelect imgur link:- <https://imgur.com/a/V99ZJOv> , [did anyone actually passed?](#)
1. Codeforces [22b](#), The story was modified but code will be same
2. Given an 8x8 chess board with upto 8 pawns. With the position of a knight provided, find the minimum number of steps needed to capture all pawns.
[\[Solution Approach - It's like writing a func to get the min steps to reach from x,y to x1,y1 in knight format, and call that to get 72 edges. Now get the sum of edges of the minimum spanning tree - use prim's algo or Kruskal considering the minimum steps as weights\]](#)

[AC solution:] If you have two pawns, you can kill $P1 \rightarrow P2$ or $P2 \rightarrow P1$. Try all the permutations (maximum: $8!$). Initial position of knight will be the one given. Find moves to kill the first pawn (BFS), then the new position of knight will be the position of first pawn. Get total moves (to kill all pawns) and try to minimize it over all permutations.]

3. Given an array initially with all 0's. there are 2 types of queries. Type 1: $1\ L\ R\ x$: add x to all elements from index L to index R . Type 2: $2\ i\ x$: add element x at index i . Find the longest increasing subsequence in the modified array. - Use prefix trick for update queries and then use $n \log n$ implementation of LIS. DON'T FORGET TO CHECK FOR OVERFLOW. n^2 implementation of LIS gave TLE in the last few test cases and got me around 70/100.
4. Question in the above link, brute force with some pruning ran 10 test cases from 12 (still got the full marks). [Code Soln](#)

MEHUL please upload solutions+ +2

Lynk Logistics

IIT (BHU)

(time??) 2.5 hrs ---> What was the cutoff? 7cgpa 10&12 - 70%

6th October

Open for all Cutoff 7.0

Platform - Hackerearth

Q1. Coin change w/o ordering Original question available anyone please? Number of ways to get distinct combination of 2,3,5 to get sum n

Q2. Dijkstra on a 2D grid PLEASE ELABORATE!!+1

<https://www.geeksforgeeks.org/minimum-cost-path-left-right-bottom-moves-allowed/>

Q3. Given N cities connected by N -1 edges. all odd cities belong to Jack and even to Aku. When a tourist travels between two cities following a simple path, it the popularity by x units. Given Q such queries, print the difference in popularity between Aku and Jack’s cities. Constraints? n<=1e5. Required finding LCA for multiple queries is it to get LCA and find number of even and odd points in the path from LCA to both end cities ?? Can we get the link of a similar question or some examples ? Similar Problem

Q4. Kth smallest element

Remarks-Test cases given were wrong

Urjanet

IITM

(CG > 8, open for only CSE(BTech, Dual, MTech, MS))

Platform- Hackerearth (Proctored and no tab switching)

1. 2 programming questions to be done in 1.5 hrs . Questions

Icertis

IITK(Placement Test)

Open to all (CPI>=7)

can switch between sections??

2 Hours Test on HackerEarth, WebCam proctored.

3 Section -

- 10 MCQs, Some questions on Basic aptitude(ex. Compound Interest), some knowledge of ML/DA, 1-2 related to DSA.

Some of the ques:

- Which clustering method involves centroidal approach. **K nearest neighbours?** K means clustering. (MCQ questions were different for different sets)
- Difference between Decision Tree and Random Forest
- You have to predict apples and oranges based on a particular feature column using a test dataset. If your model predicts eleven apples and four oranges and the original answer predicts ten apples and five oranges, then what will be the precision and recall score?
- Interest earned on a principal of INR6500 over a period of one year is the same as that for the principal of INR4500 over a period of two years.

What are the rates of interest, if the sum of the rates is 10?

- The sum and difference of CI and SI on a given amount after two years is 615 and 15 respectively. If the rate of interest in both the cases is 10% , what is the amount deposited?
- What is the time complexity of Insertion Sort

Questions related to time complexity were there.

- 1 Programming Question of 50 Marks - <https://imgur.com/a/Q79Fn19> approach?answer hai? Calculate the average of all strings and then find out the string whose distance is farthest that string is invalid stringYou were lucky this passed even though it is wrong. The correct answer is by removing either of the boundary elements and then checking the answer at the median.Yes the Test Cases were such that the mean approach will do. Can anyone please upload the solution?

- 100 Marks Classification Problem on Python/R - dataset was given, Simple Logistic Regression was fetching 50/100 Score can we use Sklearn? Can we use Tensorflow?Sklearn Yes, NLP libraries are also allowed. Tensorflow No idea but must’ve been allowed can we google during this test?+1?You can, but surely the platform records switching tabs (but the test doesn’t end when you switch)

Can someone upload the 100 marks/Data science question? +1 +1

IITR, IITD(Placement Test)

Same as IITK (Same in all IITs)

Data was downloadable for the last question.

MCQs different for everyone on (correlation, casualty, R-squared, graph)

Tabs can be opened.

- Which activation function to use for value 0.2001 (ReLu, tanh, sigmoid, N.O.T)
- Compound interest questions are common.
- Basic aptitude
- Data structure (LL, MST, String, other DS)

CODING QUESTION: **Same as IITK**

ML Question: NLP classification (Given a question and answer you had to classify the answer if it was cheerful, exclamatory etc)
(use labelencoder and tfdif in scikit learn)

Standard Chartered

- Platform?? talentq - for the 1st three tests
- Was coding round held on the same day as other rounds? (NO, It will be on some other day)
- Same coding questions for both institutes?(don't know)
- M.tech allowed??Not in IITK, IITG
- CPI CUTOFF - 7 (almost all Btech branches) v

IITK-Placement

TEST -4 rounds

- WEBCAM IS SWITCHED OFF FOR FIRST 3 ROUNDS , TAB SWITCHING ALLOWED---> **Everyone had the same questions?**
 - 1.Strength Test (not an elimination round) A few situations were given and answers were provided we’ve to arrange them in order of our opinion.
Don’t take it lightly, some were eliminated based on this
 - After strength test they mailed us link for practice test this practice is very helpful guys please don't skip it
 - practice both logical and numerical at ([Try Talent Q - Talent Q](#))
- steps: create account->select practice assessments->select the test you want , the questions from these site may/will definitely repeat in actual tests , the solutions for the practice assessment are also available on youtube->logical round(https://www.youtube.com/watch?v=bvCgdvEDvQ8&list=PLY_uGiDRShrTfjOp3Zbrb1xHnmZRtdsjo) also search for numerical round(also please look at 2019 doc too and solve) we can take help of calculator in numerical round be quick in calculating (additions,subtraction,multiplication,average,division,percentage)

- 2.Logical reasoning: 12 Questions, 75 seconds per each question (is an elimination round) ----> **Based on?**
- 3.Numerical test: 12 Questions, 75 seconds per each question. Same as CAT Data Interpretation questions (is an elimination round)
(questions in the above two rounds are of very similar pattern compared to previous year. Please take a look at 2019 doc)
WHAT WAS THE CUTOFF IN YOUR COLLEGE IN NUMERICAL ROUND? WHAT WAS THE PERCENTILE IN NUMERICAL ROUND OF THE LAST CANDIDATE SHORTLISTED FOR Coding Round? (30%, This might not be the last one)
 - 4.Coding - 2 Question (1st-30 minutes; 2nd-1 hour)(Platform - TechGig) **(What about CS Fundamentals and SQL?)NO SQL**
Is coding test proctored?Is tab switching allowed in coding round?NO Tab Switching, proctored, both camera as well as microphone, Operations like cut, copy will lead to auto submission
Does TechGig allow only a single and final submission? +1For Sample Test case you can check as many times u want but once u run against all test cases, you won’t be able to edit/debug your code or run it again so you have no option but to submit it.

Was there a Python editor available?

- Topic-Graph; Variation of Kruskal’s Minimum Spanning Tree
<https://www.geeksforgeeks.org/kruskals-minimum-spanning-tree-using-stl-in-c/>
All test cases were not passed using this **If someone knows the solution, which is passing all the test cases,please provide that.**
- Topic-Graph; Variatio--n of Total number of cycles in undirected graph **Please provide the link for this question(or images)or solution link.**
Constraint on the number of edges??https://imgur.com/a/v2cpeGC Questions(IIT-KANPUR) is it bitmask dp in graph?? please give solution Hey, what I thought was, if we consider the MST of a graph, it will have n-1 edges(n is the number of nodes) So the remaining e-n+1 edges if inserted in this will create a cycle. If x = e-n+1, then we will at least have x cycles if we insert these extra edges one by one. If we insert two edges at a time, we will have a new cycle, similarly we insert 3 edges and so on(not sure about this, though it works for the given tc). So the answer is xC1+xC2+... xCx. Can someone verify it? I also tried bitmasking but couldn't come up with a method to store the sequences uniquely.

IITD

Technical Profile No CG criteria
Exactly the same question from last year (Movie Ticket Reservation Application on HackerEarth)(time??) 2 hours
[Link to the question](#) can you share link of solution?+1

Eightfold AI

IITK

3 coding questions (90 minutes test)
3 Questions were following: Solution please +1
[EightFold IITK 2020](#) are both questions from (IITK)? Link is Empty please check quick

hogwarts class - > I used binary search, the helper function returns true if k elements could be removed and difference in 2
conseq. is less than mid value. I used two pointers for this. it passes given t.c. but fails my own t.c. .. kindly help You can
construct the array having difference of adjacent elements and then, partition the new array into n-k-1 fragments using
binary search (as we do in painter’s partition problem) T.C.-O(nlogn). Please tell if approach is wrong.

IIT BHU

3 questions on hackerrank, 2 for 50 marks and 1 for 80. Partial marking was there though
if someone has screenshots please add, will be very grateful!

- 1) Given a number n,k and x. You have k different types of phones numbered from 1 to k, you have to place these phones on a table at n
different places such that no two adjacent are the same. The number x is the index number of a phone which you may or may not have(you
only have phones from 1 to k) you can put any number of this type of phone together. Answer the total number of permutations possible. 50
marks
- 2) Given a grid whose bottom most left coordinate is (x1,y1) and topmost right coordinate as (x2,y2). you are given a circle on this 2d plane of
radius “r” and centre (xc,yc). The centre may or may not be inside the grid. Find the total number of points of the grid that lie inside the circle.
(o(n^2) gave TLE for some test cases, O(n) was expected). 50 marks //constraints?
- 3) Given an undirected graph, you are given some nodes who are named master. Initially each node can reach only one master node or
none(each connected component has at max one master). Find the maximum no. of connections that can be made without violating the
property(each connected node should have only one master) and the minimum cost of making these connections. Here the cost of making a
connection is zero if the connection is between two nodes of the same connected component else it is equal to the product of the size of the
two connected components(obviously after the connection they will become connected). 80 marks

can you please provide with some example test cases

EDGEVERVE

(Hackerrank 3Q 3hrs)
cpi cutoff? branch? 7.00, btech CSE,ECE

IIT BHU

- 1) find longest increasing subsequence
[Longest Increasing Subsequence | DP-3](#)
- 2) count no of stars between two bars for given string
eg |**|* startindex={1,1},endindex={5,6} output={2,3}[Solved: Given A String Of Stars And Bars, Determine The Nu...](#)
- 3) count no of increments to make all elements equal in array.one increment is increasing n-1 elements except 1
[Minimum number of increment-other operations to make all array elements equal.](#)

iRage Capital

IITG - Software Developer

iRageCapital conducted test on Hackerrank | 2 Coding Questions | 2 Hrs
The two problems can be accessed by signing up on this locked contest:

[contests/iragecapital-dev-hiring-challenge](https://www.hackerrank.com/contests/iragecapital-dev-hiring-challenge) (Solution Please) or approach for the second question..(DFS can be used?)
can some good and intelligent coder give solutions for Q2!!yes please+1+1+1

Questions for quant role? Plz add

For quant role:

Part 1: stress test is this an elimination round?(NO)
60 very easy basic arithmetics question(20 min) calculator not allowed

part2:(1:30 hour min or hour?)
question containing python code snippet, basic machine learning question(example ?? question on overfitting of data , question on confusion matrix and f1 score),medium level aptitude questions. (was there a time limit per question ?? no) PROB stats questions were there ??(Yes)

coding question:
count AP of length 3 in the range 1 to 2*N+1; Can you please elaborate this a bit?
<https://www.geeksforgeeks.org/probability-three-randomly-chosen-numbers-ap/> (we have to print count only)

Citrix

IIT R- Software Engineer 1 & 2

cg>=6, cse,ece,ee MCQs Link/SS?

Question - https://drive.google.com/drive/folders/1wK3gjgD3cevg_7oXiJCJ9Z-nS4GxUwTm?usp=sharing
Solution 1: <https://leetcode.com/problems/find-the-city-with-the-smallest-number-of-neighbors-at-a-threshold-distance/>

Oracle

IITG (First 3 Sections)

- No coding question. 72 MCQs(Different)in 87 minutes.
4 Sections:
1. Software Engineering Aptitude: 39 ques in 47 mins.
(Math Reasoning, Data Analysis and Critical Thinking, Persistence and Attention to Details, Programming Ability, Logical Thinking.)

2. Coding Skills: 16 ques in 25 mins.
(Tree (Binary Tree, BST, AVL, etc.))

3. Computer Science Knowledge: 17 ques in 15 mins.
(DS, OS, OOPS, Big O Complexity, DBMS, Codd's Rules.)

4. Contextual Communication: 20 ques in 20 mins. (Not asked in IITG, but in IIITB)
Angrezi.

IIT(BHU)-Same as IITG(Only first 3 sections)

